



# EMC Made Simple - Printed Circuit Board and System Design

By Mark I Montrose



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This book simplifies the complex field of electromagnetic compatibility into easy concepts without the need for complicated math or extensive computational analysis. Learn how to design printed circuit boards and systems quickly with just five easy equations. Electromagnetic compatibility requirements are easily achieved with the author's unique approach by transforming Maxwell's Equations (calculus) into Ohm's Law (algebra) in a visual manner. Everyone, regardless of experience, will benefit from learning a new way of solving complex field problems using an oscilloscope instead of a spectrum analyzer. Signal propagation is based on transmission line theory. If one can visualize losses in a transmission line, it becomes easy to achieve EMC at low cost as well as enhanced signal integrity. Easy to read chapters simplify theoretical concepts for those who never took a electromagnetics course in college, or designers that seek to re-learn and understand electromagnetic theory as it applies to both printed circuit boards and systems presented in a revolutionary manner. This book contains the following chapters:

- Maxwell Made Simple
- Inductance Made Simple
- Transmission Line Theory Made Simple
- Power Distribution Networks Made Simple
- Referencing Made Simple (a.k.a. Grounding)
- Shielding, Gasketing and Filtering Made Simple

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## EMC Made Simple - Printed Circuit Board and System Design By Mark I Montrose Bibliography

- Sales Rank: #346558 in Books
- Published on: 2014-07-26
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .84" w x 7.00" l, 1.43 pounds
- Binding: Paperback
- 372 pages



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### **Editorial Review**

#### **About the Author**

Mark I. Montrose is principle consultant of Montrose Compliance Services, Inc., a full service regulatory compliance firm specializing in electromagnetic compatibility (EMC) and industrial product safety. He has over thirty five years at time of this book development within applied EMC with expertise as a trainer, consultant, systems designer, product engineer, manufacturing and component engineer, in addition to management positions in both Regulatory Compliance and Engineering Services. Mr. Montrose is an assessed EMC test laboratory to ISO 17025 and accredited by Exemplar Global (iNARTE) as an EMC Master Design Engineer and Product Safety Engineer. Mark is a senior member of the IEEE, past member of the IEEE Board of Directors (2009-2010), long term Board member of the IEEE EMC Society, champion and first president of the IEEE Product Safety Engineering Society and holds the Amateur Extra Class License, K6WJ. Mark has authored numerous technical papers based on sophisticated research in the field of electromagnetic compatibility and signal integrity. He presents at symposiums and colloquiums in North America, Europe, and Asia, and is a frequent speaker at international events. It is from his work as a professional trainer that he developed a unique method to teach advanced EMC concepts in a simplified manner for those without extensive experience in the field of EMC. Mark Montrose authored the following best-selling reference/textbooks published by Wiley/IEEE Press prior to self-publishing this book. All books are published under the sponsorship of the IEEE Electromagnetic Compatibility Society with international translations.

- Printed Circuit Board Design Techniques for EMC Compliance—A Handbook for Designers, 1st edition—1995, 2nd edition—2000.
- EMC and the Printed Circuit Board—Design, Theory and Layout Made Simple, 1999.
- Testing for EMC Compliance—Approaches and Technique, 2004.

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